

## CIRCULATION HEATER WATTAGE FOR STATIONARY APPLICATIONS

Size of Engine (L)	Heat Rise °F	Heat Rise °C	Warm Up Time	Recommended Wattage**
4 Liter	85°F	47°C	2 Hours	1500
			4 Hours	750
			8 Hours	500
	105°F	58°C	2 Hours	2250
			4 Hours	1000
			8 Hours	500
6 Liter	85°F	47°C	2 Hours	2250
			4 Hours	1000
			8 Hours	500
	105°F	58°C	2 Hours	2250
			4 Hours	1500
			8 Hours	750
9 Liter	85°F	47°C	2 Hours	2700
			4 Hours	1500
			8 Hours	750
	105°F	58°C	2 Hours	4000
			4 Hours	2250
			8 Hours	1000
13 Liter	85°F	47°C	2 Hours	5000
			4 Hours	2250
			8 Hours	1500
	105°F	58°C	2 Hours	6000
			4 Hours	2700
			8 Hours	1500
15 Liter	85°F	47°C	2 Hours	6000
			4 Hours	4000
			8 Hours	1500
	105°F	58°C	2 Hours	2250
			4 Hours	4000
			8 Hours	2250
18 Liter	85°F	47°C	2 Hours	6000
			4 Hours	4000
			8 Hours	1500
	105°F	58°C	2 Hours	9000
			4 Hours	4000
			8 Hours	2250
27 Liter	85°F	47°C	2 Hours	12000
			4 Hours	6000
			8 Hours	2700
	105°F	58°C	2 Hours	12000
			4 Hours	6000
			8 Hours	4000
32 Liter	85°F	47°C	2 Hours	12000
			4 Hours	6000
			8 Hours	2700
	105°F	58°C	4 Hours	9000
			8 Hours	4000
35 Liter	85°F	47°C	4 Hours	9000
			8 Hours	4000
	105°F	58°C	4 Hours	12000
			8 Hours	6000
50 Liter	85°F	47°C	4 Hours	12000
			8 Hours	6000
	105°F	58°C	8 Hours	9000
60 Liter	85°F	47°C	8 Hours	9000
	105°F	58°C	8 Hours	9000
69 Liter	85°F	47°C	8 Hours	9000
	105°F	58°C	8 Hours	12000

\*Heat rise calculations are based on wattage required to achieve the listed heat rise.

\*\*If the engine is exposed to a wind load select the highest wattage available for that engine size.

Additional questions, contact a sales manager to help you determine what circulation heater is right for your application – [sales@phillipsandtemro.com](mailto:sales@phillipsandtemro.com).